CLAIMS

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- 1. A front-loading syringe support device for an angiographic injector, the device being adapted to be secured to the front face (4) of the injector (2) and to position an angiographic syringe (1) having a body (7) presenting an outwardly-directed projection (30), the cross-section of the body at the location of said projection being non-circular, the device including a recess (24) that is open in a reception direction, in particular upwards, and presents firstly a non-circular cross-section that is complementary to a portion of the cross-section of the syringe body at the location of said projection, and secondly a front face (27) for coming into abutment against said projection, the device being extended forwards by a cradle (23) for supporting the
- 15 extended forwards by a cradle (23) for supporting the syringe body, the device being characterized in that the recess (24) includes a central portion (31) that is circularly arcuate in cross-section, and that is extended by two diametrically-opposite notches (32).
 - 2. A support device according to claim 1, characterized in that said central portion (33) extends the inside surface of the cradle (23).
- 3. A support device according to claim 5, characterized in that each notch (32) is connected to the central portion (31) via a cam-forming convex curved surface (33).
- 30 4. A support device according to any one of claims 1 to 3, characterized in that the recess (24) is rearwardly open.
- 5. An angiographic injection device, characterized in that it comprises:
 - an angiographic syringe (1) having a body (7) provided with an outwardly-projecting projection (30),

the cross-section of the body at the location of said projection being non-circular, said projection (30) being constituted by two diametrically-opposite tabs, each of which is adapted to be received in one of the notches (32) in such a manner as to be positioned thereby; and

. a syringe support device (3) according to any one of claims 1 to 4.

6. An angiographic injection system of the type comprising an angiographic injector (2) having an axially-movable pusher (5), at least one angiographic syringe (1) including a piston (13) provided with means (16) for releasably coupling with the front head (19) of the pusher, and releasable means for securing the syringe to the front face (4) of the injector, the system being characterized in that it further comprises at least one angiographic injector device according to claim 5, the syringe support device (3) being secured to the front face (4) of the injector.

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7. An injection system according to claim 6, characterized in that, starting from the position in which the syringe is secured, the system is arranged in such a manner that turning the syringe through 90° causes it to be lifted by one of the tabs (30) co-operating with the bottom of the associated notch (32) and the piston (13) and the pusher (5) being disconnected, the syringe then being removable in a forward direction even if the pusher is engaged inside the body of the syringe.

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8. An angiographic injection system according to claim 6, characterized in that the support device (3) is in accordance with claim 4, and in that the front face (4) of the injector (2) forms the rear face of the recess (24).

9. An angiographic injection system according to any one of claims 6 to 8, characterized in that the head (19) of the pusher (5) and the piston (13) comprise between them an undercut peg (16) and a slot (20) that is open in said reception direction or in the opposite direction such that when the pusher is in the retracted position, putting the projection (30) of the syringe (1) into place in the recess (24) by moving in the direction opposite to said reception direction causes the peg (16) to be inserted into the slot (20).